

CLAIMS

What is claimed is:

1. An antenna comprising:

a first electrically conductive loop;

a feed point for feeding radio frequency energy into said first conductive loop; and

a second electrically conductive loop, said first electrically conductive loop and said second electrically conductive loop each having a common conductive portion.

2. The antenna of claim 1, wherein said second conductive loop is disposed within said first conductive loop.

3. The antenna of claim 1, wherein said first conductive loop and said second conductive loop are rectangular.

4. The antenna of claim 1, wherein said second conductive loop comprises a conductor connected between a first point on said first conductive loop and a second point on said first conductive loop.

5. The antenna of claim 1, wherein said first conductive loop is in the shape of an octagon.

6. The antenna of claim 5, wherein said second conductive loop comprises a conductor connected between a first point on said first conductive loop and a second point on said first conductive loop.

7. The antenna of claim 6, wherein said first point and said second point are located at opposite ends of a side of said octagon.

8. The antenna of claim 7, further comprising a tuning capacitor disposed along said second conductive loop.

9. The antenna of claim 7, further comprising a tuning capacitor located in series at said feed point.

10. The antenna of claim 9, wherein said tuning capacitor is in series with said feed point.

11. The antenna of claim 1, further comprising a tuning capacitor disposed along said second conductive loop.

12. The antenna of claim 1, further comprising a tuning capacitor in series with said feed point.

13. A method for configuring an antenna, comprising:

providing a conductive loop with a discontinuity to act as a feed for receiving radio frequency energy;

connecting a conductor between two points on said loop;

providing a tuning capacitor along said conductor;

adjusting said capacitor to tune said antenna.

14. The method of claim 13, further comprising:

providing a series capacitor at said feed.

15. The method of claim 13, wherein said conductive loop is formed as a polygon, and said conductor connects ends of a side of said polygon.

16. The method of claim 15, wherein said polygon is an octagon.

17. The method of claim 13, wherein said loop is circular.